

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**June 2001**

**Gray Davis**  
Governor  
State of California

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Secretary for Resources  
The Resources Agency

**Thomas M. Hannigan**  
Director  
Department of Water Resource

State of California  
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The Resources Agency  
**MARY D. NICHOLS, Secretary for Resources**

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The organization shown above represents staff and positions relevant to this report as of publication date on December 12, 2001. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following highlights are activities or actions that impacted State Water Project operations during the month of June 2001.

Statewide precipitation was 70 percent of average for the 2000-2001 water year through June. Statewide runoff was 50 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: "[http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)".

On June 30, total storage in major SWP reservoirs was about 3.18 MAF, compared with about 4.11 MAF at this time in 2000. The average storage in the major SWP reservoirs at the end of June is about 4.24 MAF. The June 30 storage at Lake Oroville was about 1.92 MAF as compared to 2.87 MAF last year. The State's share of San Luis Reservoir storage was about 643 TAF, as compared with 555 TAF at this time last year. On June 30, the combined storage in our southern reservoirs was about 615 TAF, compared with about 650 TAF at this time last year.

Through June, SWP water deliveries for 2001 were about 953,600 AF. This is a combination of project, transfer, and exchange waters. This is 635,300 AF less than delivered during the same period in 2000.

A leak was discovered on June 5, 2001 at Mile 4.25 of the aqueduct between Banks Pumping Plant and Bethany Reservoir. The leak, estimated at approximately 2 cfs, was located 29 feet under water. Repair crews controlled the leak by pumping approximately 55 cubic yards of concrete through the lining. Around the clock repairs were initiated to fix the leak and included construction of two 30-foot high cofferdams on either side of the leak. Dewatering of approximately 1200 feet of aqueduct was required to repair the concrete liner. Repair of the liner included installation of a waterproof geomembrane in the leak area. During the repairs, some SWP contractor demands were met by releasing water from Del Valle Reservoir. A temporary pumping plant was also installed in the CVP Delta Mendota Canal (DMC), operated by the San Luis Delta Mendota Water Authority to meet additional demand. A dozen pumps transferred approximately 4,700 AF of water from the DMC into the SWP aqueduct during the outage. The CVP received an equal amount of water from the SWP's share of San Luis Reservoir in return.

Water quality concerns at Emmaton dictated release schedules from the reservoirs. The X2 requirement at Collinsville, a three-day average of 7,100 cfs outflow, dictated operations for much of June. Only Tracy Pumping Plant was exporting while Banks was shut down for canal repairs after June 12. DWR filed for a temporary urgency permit for use of the Tracy Pumping Plant as a point of diversion for SWP exports. The State Water Resources Control Board (SWRCB) granted the petition and the CVP exported 11,000 AF on behalf of the SWP from June 18 to 30.

As concerns for delta smelt diminished, the temporary agriculture barriers in the South Delta were made fully operational. Pumping at Barker Slough resumed to full operations after being limited to 65 cfs earlier in the month.

**Table 1. Antelope Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
May 31	4996.87	18,075								
1	4996.83	18,043	-32	5	0	0	0	0		
2	4996.79	18,010	-33	5	0	0	0	0		
3	4996.75	17,977	-33	5	0	0	0	0		
4	4996.71	17,945	-32	5	0	0	0	0		
5	4996.68	17,920	-25	5	0	0	0	0		
6	4996.66	17,904	-16	5	0	0	0	0		
7	4996.64	17,888	-16	5	0	0	0	0		
8	4996.59	17,847	-41	5	0	0	0	0		
9	4996.56	17,823	-24	5	0	0	0	0		
10	4996.52	17,790	-33	5	0	0	0	0		
11	4996.49	17,766	-24	5	0	0	0	0		
12	4996.45	17,734	-32	5	0	0	0	0		
13	4996.41	17,701	-33	5	0	0	0	0		
14	4996.39	17,685	-16	5	0	0	0	0		
15	4996.36	17,661	-24	5	0	0	0	0		
16	4996.32	17,629	-32	5	0	0	0	0		
17	4996.29	17,605	-24	5	0	0	0	0		
18	4996.25	17,572	-33	5	0	0	0	0		
19	4996.22	17,548	-24	5	0	0	0	0		
20	4996.18	17,516	-32	5	0	0	0	0		
21	4996.15	17,492	-24	5	0	0	0	0		
22	4996.12	17,468	-24	5	0	0	0	0		
23	4996.07	17,428	-40	5	0	0	0	0		
24	4996.02	17,388	-40	5	0	0	0	0		
25	4995.99	17,364	-24	5	0	0	0	0		
26	4995.96	17,340	-24	5	0	0	0	0		
27	4995.92	17,308	-32	5	0	0	0	0		
28	4995.89	17,284	-24	5	0	0	0	0		
29	4995.87	17,268	-16	5	0	0	0	0		
30	4995.83	17,236	-32	5	0	0	0	0		
Total cfs-days			---	150	0	0	0	345	496	
Total ac-ft			-839	298	0	0	0	685	983	
1/ Values not available on a daily basis.										

**Table 2. Frenchman Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
May 31	5576.05	38,527									
1	5575.90	38,338	-189	0	42	0	0	0			
2	5575.84	38,262	-76	0	48	0	0	0			
3	5575.72	38,111	-151	0	48	0	0	0			
4	5575.59	37,949	-162	0	44	0	0	0			
5	5575.51	37,849	-100	0	47	0	0	0			
6	5575.38	37,686	-163	0	49	0	0	0			
7	5575.33	37,624	-62	0	49	0	0	0			
8	5575.23	37,500	-124	0	37	0	0	0			
9	5575.20	37,464	-36	0	29	0	0	0			
10	5575.10	37,339	-125	0	29	0	0	0			
11	5575.07	37,302	-37	0	27	0	0	0			
12	5574.98	37,190	-112	0	46	0	0	0			
13	5574.88	37,067	-123	0	49	0	0	0			
14	5574.76	36,919	-148	0	49	0	0	0			
15	5574.64	36,772	-147	0	68	0	0	0			
16	5574.49	36,588	-184	0	77	0	0	0			
17	5574.36	36,430	-158	0	77	0	0	0			
18	5574.21	36,247	-183	0	81	0	0	0			
19	5574.01	36,005	-242	0	89	0	0	0			
20	5573.85	35,812	-193	0	95	0	0	0			
21	5573.69	35,619	-193	0	95	0	0	0			
22	5573.55	35,451	-168	0	71	0	0	0			
23	5573.44	35,320	-131	0	58	0	0	0			
24	5573.27	35,117	-203	0	58	0	0	0			
25	5573.18	35,010	-107	0	47	0	0	0			
26	5573.08	34,892	-118	0	39	0	0	0			
27	5572.97	34,762	-130	0	40	0	0	0			
28	5572.90	34,679	-83	0	41	0	0	0			
29	5572.85	34,620	-59	0	36	0	0	0			
30	5572.76	34,514	-106	0	34	0	0	0			
Total cfs-days				---	0	1,599	0	0	473	2,072	
Total ac-ft				-4,013	0	3,172	0	0	939	4,111	
1/ Values not available on a daily basis.											

**Table 3. Lake Davis**

Daily Operation  
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
May 31	5766.89	55,107									
1	5766.85	54,980	-127	10	0	0	0				
2	5766.81	54,853	-127	10	0	0	0				
3	5766.78	54,757	-96	10	0	0	0				
4	5766.74	54,631	-126	10	0	0	0				
5	5766.71	54,536	-95	10	0	0	0				
6	5766.69	54,472	-64	10	0	0	0				
7	5766.68	54,441	-31	10	0	0	0				
8	5766.63	54,283	-158	10	0	0	0				
9	5766.61	54,220	-63	10	0	0	0				
10	5766.58	54,126	-94	10	0	0	0				
11	5766.56	54,063	-63	10	0	0	0				
12	5766.52	53,937	-126	10	0	0	0				
13	5766.48	53,811	-126	10	0	0	0				
14	5766.46	53,749	-62	10	0	0	0				
15	5766.45	53,717	-32	10	0	0	0				
16	5766.43	53,656	-61	10	0	0	0				
17	5766.41	53,592	-64	10	0	0	0				
18	5766.39	53,529	-63	10	0	0	0				
19	5766.34	53,373	-156	10	0	0	0				
20	5766.33	53,342	-31	10	0	0	0				
21	5766.33	53,342	0	10	0	0	0				
22	5766.28	53,186	-156	10	0	0	0				
23	5766.21	52,968	-218	10	0	0	0				
24	5766.17	52,844	-124	10	0	0	0				
25	5766.17	52,844	0	7	0	3	0				
26	5766.13	52,720	-124	5	0	5	0				
27	5766.07	52,534	-186	5	0	5	0				
28	5766.05	52,472	-62	5	0	5	0				
29	5766.04	52,472	0	5	0	5	0				
30	5766.02	52,380	-92	6	0	4	0				
Total cfs-days			---	274	0	26	0	1,104	1,404	29	
Total ac-ft			-2,727	543	0	52	0	2,190	2,785	58	

1/ Values not available on a daily basis.

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
May 31	793.46	2,118,838								
	1	792.59	2,109,271	-9,567	12,321	33	322	0	12,676	1,055
	2	792.26	2,105,650	-3,621	7,128	33	265	0	7,426	860
	3	791.99	2,102,690	-2,960	5,421	33	220	0	5,674	0
	4	791.32	2,095,360	-7,330	10,212	33	264	0	10,509	0
	5	790.32	2,084,452	-10,908	11,938	33	257	0	12,228	0
	6	789.64	2,077,058	-7,394	11,435	33	225	0	11,693	0
	7	788.30	2,062,542	-14,516	16,034	33	281	0	16,348	0
	8	787.11	2,049,712	-12,830	16,278	33	297	0	16,608	0
	9	785.89	2,036,617	-13,095	13,952	33	284	0	14,269	0
	10	785.62	2,033,728	-2,889	4,668	33	246	0	4,947	0
	11	785.00	2,027,103	-6,625	10,076	34	208	0	10,318	0
	12	784.20	2,025,182	-1,921	6,110	34	135	0	6,279	0
	13	784.09	2,017,407	-7,775	10,266	34	293	0	10,593	0
	14	783.15	2,007,427	-9,980	13,239	34	324	0	13,597	0
	15	782.31	1,998,539	-8,888	12,070	34	274	0	12,378	0
	16	781.84	1,993,578	-4,961	7,342	34	345	0	7,721	146
	17	781.65	1,991,575	-2,003	4,204	34	278	0	4,516	906
	18	781.20	1,986,837	-4,738	9,908	34	315	0	10,257	1,204
	19	781.15	1,986,311	-526	6,081	34	338	0	6,453	2,115
	20	780.56	1,980,112	-6,199	11,027	34	326	0	11,387	1,971
	21	779.51	1,969,115	-10,997	17,210	34	320	0	17,564	906
	22	778.44	1,957,953	-11,162	14,336	34	288	0	14,658	0
	23	777.77	1,950,988	-6,965	8,186	34	322	0	8,542	0
	24	777.76	1,949,846	-1,142	3,325	34	245	0	3,604	0
	25	777.12	1,944,247	-5,599	8,796	34	209	0	9,039	0
	26	776.69	1,939,798	-4,449	9,779	34	71	0	9,884	0
	27	776.39	1,936,697	-3,101	5,301	34	113	0	5,448	0
	28	776.16	1,934,323	-2,374	6,349	34	30	0	6,413	0
	29	775.20	1,924,435	-9,888	12,364	34	188	0	12,586	0
	30	774.60	1,918,274	-6,161	8,108	34	259	0	8,401	0
Total		-200,564	293,464	1,010	7,542	0	302,016	9,163	92,289	

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

Capacity: 25,120 ac-ft

**June 2001**

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
May 31  9	23,217										
	1	23,206	-11	12,321	445	1,535	12,112	0	13	1,245	1,055
	2	23,473	267	7,128	424	1,372	6,580	0	13	1,238	860
	3	23,806	333	5,421	424	0	4,339	0	13	1,236	0
	4	23,434	-372	10,212	444	0	9,724	0	13	1,242	0
	5	23,526	92	11,938	444	0	11,212	0	13	1,231	0
	6	23,716	190	11,435	506	0	10,511	0	13	1,238	0
	7	23,530	-186	16,034	385	0	15,556	0	13	1,238	0
	8	23,532	2	16,278	438	0	15,488	0	13	1,238	0
	9	23,962	430	13,952	411	0	12,828	0	13	1,233	0
	10	23,863	-99	4,668	430	0	3,950	0	13	1,235	0
	11	23,341	-522	10,076	430	0	9,815	0	13	1,237	0
	12	23,301	-40	6,110	446	0	5,345	0	13	1,237	0
	13	23,729	428	10,266	442	0	9,120	0	13	1,237	0
	14	23,415	-314	13,239	421	0	12,800	0	13	1,233	0
	15	23,573	158	12,070	415	0	11,222	0	13	1,226	0
	16	23,858	285	7,342	563	268	6,391	0	13	1,226	146
	17	23,691	-167	4,204	484	1,402	4,171	0	13	1,232	906
	18	23,227	-464	9,908	284	2,371	10,704	0	13	1,232	1,204
	19	23,624	397	6,081	462	2,190	5,070	0	13	1,239	2,115
	20	23,154	-470	11,027	464	1,605	10,327	0	13	1,245	1,971
	21	23,567	413	17,210	419	1,376	16,569	0	13	1,245	906
	22	23,890	323	14,336	419	0	13,173	0	13	1,249	0
	23	24,300	410	8,186	421	0	7,169	0	13	1,249	0
	24	23,941	-359	3,325	468	0	2,941	0	13	1,249	0
	25	23,889	-52	8,796	498	0	8,197	0	13	1,251	0
	26	23,641	-248	9,779	504	0	9,327	0	13	1,251	0
	27	23,588	-53	5,301	514	0	4,643	1	14	1,249	0
	28	23,954	366	6,349	541	0	5,317	1	14	1,251	0
	29	23,666	-288	12,364	468	0	11,970	1	14	1,247	0
	30	24,343	677	8,108	496	0	6,800	1	14	1,243	0
Total		1,126	293,464	13,510	12,119	273,371	4	394	37,202	9,163	2,167

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

June 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
May 31	130.42	33,562											
1	130.71	34,552	990	12,112	2,717	18	638	1,374	4,760	1,535	-80	6,005	
2	129.01	28,941	-5,611	6,580	2,777	22	643	1,452	5,752	1,372	-173	6,990	
3	126.90	22,636	-6,305	4,339	2,836	28	641	1,482	5,772	0	115	7,008	
4	126.37	21,169	-1,467	9,724	2,896	32	644	1,513	5,752	0	-354	6,994	
5	126.43	21,332	163	11,212	2,936	34	644	1,587	5,494	0	-354	6,725	
6	126.70	22,077	745	10,511	2,975	32	670	1,658	4,503	0	72	5,741	
7	128.80	28,280	6,203	15,556	2,995	34	714	1,680	3,749	0	-181	4,987	
8	130.69	34,483	6,203	15,488	2,995	42	712	1,662	3,352	0	-522	4,590	
9	131.90	38,756	4,273	12,828	2,995	40	702	1,630	2,955	0	-233	4,188	
10	130.77	34,758	-3,998	3,950	2,955	38	700	1,607	2,559	0	-89	3,794	
11	131.20	36,256	1,498	9,815	2,936	40	716	1,581	2,559	0	-485	3,796	
12	130.58	34,106	-2,150	5,345	2,936	36	722	1,523	2,341	0	63	3,578	
13	131.02	35,625	1,519	9,120	2,955	30	750	1,452	2,341	0	-73	3,578	
14	132.31	40,257	4,632	12,800	2,955	28	764	1,434	2,341	0	-646	3,574	
15	133.24	43,759	3,502	11,222	2,955	26	764	1,464	2,341	0	-170	3,567	
16	132.74	41,859	-1,900	6,391	2,975	28	781	1,567	2,539	268	-133	3,765	
17	131.25	36,432	-5,427	4,171	2,955	31	789	1,630	2,559	1,402	-232	3,791	
18	131.26	36,467	35	10,704	2,995	32	791	1,662	2,559	2,371	-259	3,791	
19	129.63	30,933	-5,534	5,070	3,074	32	811	1,736	2,559	2,190	-202	3,798	
20	129.75	31,326	393	10,327	3,094	34	821	1,803	2,559	1,605	-18	3,804	
21	131.63	37,782	6,456	16,569	3,114	34	835	1,829	2,559	1,376	-366	3,804	
22	132.85	42,274	4,492	13,173	3,094	34	815	1,829	2,539	0	-370	3,788	
23	132.56	41,185	-1,089	7,169	3,035	34	787	1,807	2,559	0	-36	3,808	
24	131.06	35,765	-5,420	2,941	2,995	34	780	1,779	2,539	0	-234	3,788	
25	131.06	35,765	0	8,197	2,976	31	780	1,779	2,559	0	-72	3,810	
26	131.37	36,856	1,091	9,327	2,975	31	801	1,692	2,559	0	-178	3,810	
27	130.31	33,190	-3,666	4,643	2,955	31	809	1,597	2,559	0	-358	3,808	
28	129.54	30,640	-2,550	5,317	2,896	31	809	1,549	2,559	0	-23	3,810	
29	130.74	34,655	4,015	11,970	2,817	31	793	1,531	2,559	0	-224	3,806	
30	130.44	33,629	-1,026	6,800	2,836	31	795	1,531	2,559	0	-74	3,802	
Total				67	273,371	88,600	959	22,421	48,420	94,896	12,119	-5,889	132,098

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

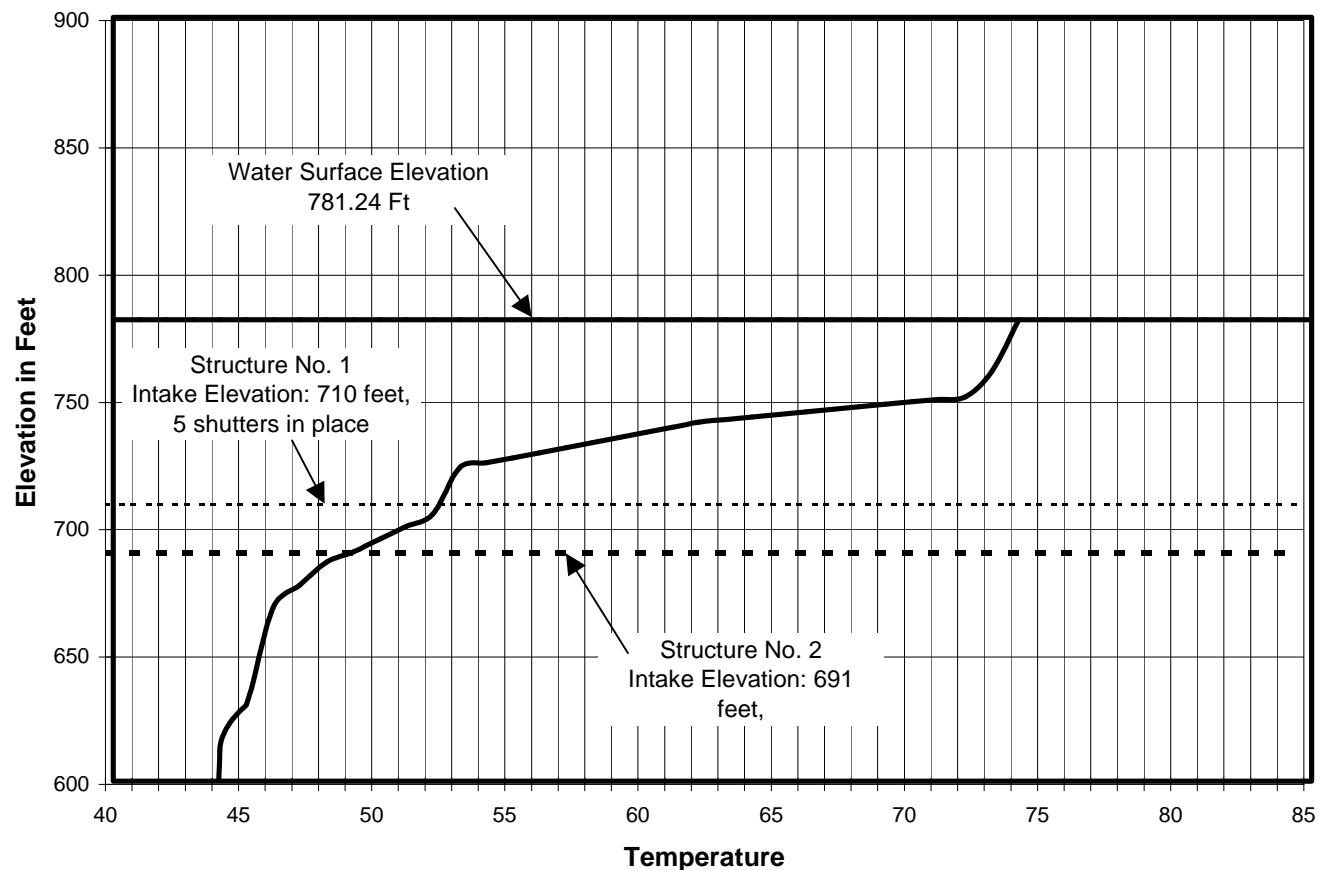
**Table 7. Oroville-Thermalito Complex**

Water Temperature Data

(in degrees Fahrenheit)

June 2001

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	62	53
2	63	53
3	63	53
4	62	53
5	62	53
6	63	53
7	63	53
8	62	53
9	61	53
10	62	53
11	62	54
12	65	54
13	66	53
14	65	54
15	65	54
16	64	54
17	64	55
18	68	56
19	68	55
20	69	56
21	68	57
22	66	58
23	64	58
24	66	58
25	66	58
26	65	58
27	65	57
28	67	57
29	68	57
30	68	59

**Lake Oroville Temperature Profile  
on June 20, 2001**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

June 2001

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement			Purchase Pool B		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,741	404	370	1,653	1,385		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	404						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	370						
				Solano County Water Agency Fairfield / Vacaville 42"	1,653						
			17.00	Solano County Water Agency Central Solano	Stub						
		Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,120						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,385						
				Solano County Water Agency Benicia	1,058						
3B	2	Cordelia Surge Tank	23.33			13	394	188	82		
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	13						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	476						
			27.60	Napa County Flood Control & WCD American Canyon 1	188						

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

June 2001

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	132	84	0	0	286	0	0	154
2	114	75	1,570	1,390	289	0	0	90
3	120	69	1,652	1,623	460	76	0	12
4	126	81	2,081	2,081	568	158	0	0
5	117	79	2,035	2,035	547	145	0	0
6	134	90	0	0	590	203	0	0
7	156	97	258	258	604	205	0	0
8	208	108	511	511	430	87	0	0
9	221	109	272	272	334	0	0	0
10	223	112	378	378	305	0	0	10
11	206	113	325	325	190	0	0	166
12	195	100	0	0	89	0	0	267
13	195	101	0	0	98	0	0	246
14	220	120	59	59	138	0	0	241
15	217	111	0	0	148	0	0	181
16	229	117	26	2	148	0	0	193
17	243	124	0	0	148	0	0	205
18	214	113	0	0	164	0	0	186
19	185	118	0	0	178	0	0	225
20	154	117	32	32	178	0	0	222
21	222	119	0	0	178	0	0	183
22	234	119	0	0	178	0	0	191
23	234	125	0	0	178	0	0	178
24	230	130	0	0	178	0	0	138
25	210	106	0	0	158	0	0	196
26	185	92	24	24	162	0	0	247
27	202	97	0	0	138	0	0	245
28	174	74	0	0	128	0	0	249
29	205	100	0	0	133	0	0	253
30	236	120	10	0	149	0	0	243
Total	5,741	3,120	9,233	8,990	7,472	874	0	4,521

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

June 2001

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	7:06	10:03	14:00	15:31	20:15	21:15			946
2	10:00	10:53	14:45	17:00					1,949
3	6:00	9:20	16:40	17:30					2,617
4	6:10	10:10	16:40	17:20					2,383
5	6:49	10:07	19:30	20:00					2,425
6	---								0
7	18:25	20:30							1,137
8	0:05	2:45							901
9	---								0
10	---								0
11	---								0
12	---								0
13	---								0
14	---								0
15	17:30	20:20							814
16	---								0
17	---								0
18	---								0
19	15:20	19:30							1,860
20	6:15	8:14							792
21	---								0
22	---								0
23	---								0
24	---								0
25	---								0
26	---								0
27	---								0
28	---								0
29	---								0
30	---								0
Total inflow for the month in AF:									15,824

**Table 11. Governor Edmund G. Brown California Aqueduct**  
 Delta Field Division, Monthly Deliveries

(In acre-feet)

**June 2001**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitle-ment	USBR	Local	Loan Water	Carryover Ent.		
	No.	Structure	Mile									
1	Banks Pumping Plant	3.32			9,233							
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir inlet	7,472	50	50	64	0			
		Check No. 1	5.95									
		Check No. 2	12.01									
	3		12.47	Musco Olive	50							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2B	8		42.46	Oak Flat Water District-A	35	35	35	64	0			
			42.9	Western Hills WD	64							
			43.81	Oak Flat Water District-B	220							
			44.64	Oak Flat Water District-C	179							
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	319	220	220	0	0			
				Oak Flat Totals:	753							
	10	Check No. 9	51.3			179	179	0	0			
	11	Check No. 10	56.86									
	12	Check No. 11	61.4									
			66.14	Veteran's Cemetery	6	6	6	0	0			
		Check No. 12	66.71									

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**June 2001**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		Structure			Entitlement	Exchange /1	Local	Recreation	
	No.	Structure	Mile							
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	0	3	10	1,005		
			3.17	Granite - Vasco Rd. (Temp.)	0					
			3.18	Oakland Scavenger Zone 7	3					
		Check No. 1	3.91							
	2	Check No. 2	5.21							
2	3		7.21	Zone 7 Altamont	10	314	149	23		
		Check No. 3	9.49	Zone 7 Patterson Stored Exchange	0					
				Zone 7 Patterson Project Water	1,005					
4	4	Check No. 4	10.68			43	33	117		
		Check No. 5	12.29							
			13.55	Zone 7 Wente #1	314					
			14.16	Zone 7 Wente #2	149					
	6		14.31	Ising Project Water	23	56	27	295		
		Check No. 6	14.65							
			14.78	Zone 7 Arroyo Mocho	0					
	7	Check No. 7	16.38							
	8		16.57	Zone 7 Wente #3	43	117	2,283	246		
			16.69	Zone 7 Norman Nursery	33					
			16.70	Zone 7 Concannon Project Water	117					
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	875					
				(Flow into South Bay Aqueduct)	4,525					
5	8	Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Project Water	56	190	242			
				Arroyo Valle #1 & #2 Stored Exchange	0					
				Lake Del Valle Recreation	27					
				Zone 7 Wente #5	117					
			19.20	So. Livermore Project	2,578					
6				So. Livermore Inflow Released	246	2,216	242			
				So. Livermore Stored Exchanged	0					
			19.21	Zone 7 - Kalthrof Detjens	190					
7		La Costa Tunnel	22.50	ACWD Vallecitos Project Water	0	3,770	242			
			25.97	City of San Francisco San Antonio	0					
8		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water: Inflow Released Storage Release	2,216	3,770	242			
				S.C.V.W.D. Meter	242					
9		Santa Clara Pipeline	35.86							

1/ Semitropic entitlement water exchanged with Alameda County Zone 7 WA.

**Table 13. Lake Del Valle**

Daily Operation

(in acre-feet except as noted)

**June 2001**

Capacity: 77,106 ac-ft

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
May 31	700.64	38,267									
	1	700.41	38,108	-159	15	0	0	154	1	19	174
	2	700.27	38,012	-96	11	0	0	90	1	16	107
	3	700.34	38,060	48	-5	76	0	12	1	10	23
	4	700.57	38,218	158	14	158	0	0	1	13	14
	5	700.74	38,336	118	-12	145	0	0	1	14	15
	6	700.99	38,508	172	-17	203	0	0	1	13	14
	7	701.28	38,709	201	11	205	0	0	1	14	15
	8	701.38	38,779	70	6	87	0	0	1	22	23
	9	701.37	38,772	-7	10	0	0	0	1	16	17
	10	701.33	38,744	-28	-4	0	0	10	1	13	24
	11	701.09	38,578	-166	10	0	0	166	1	9	176
	12	700.72	38,322	-256	21	0	0	267	1	9	277
	13	700.35	38,067	-255	4	0	0	246	1	12	259
	14	700.00	37,827	-240	22	0	0	241	1	20	262
	15	699.74	37,650	-177	21	0	0	181	1	16	198
	16	699.46	37,459	-191	22	0	0	193	1	19	213
	17	699.16	37,255	-204	19	0	0	205	1	17	223
	18	698.89	37,072	-183	21	0	0	186	1	17	204
	19	698.56	36,850	-222	21	0	0	225	1	17	243
	20	698.23	36,628	-222	18	0	0	222	1	17	240
	21	697.94	36,434	-194	6	0	0	183	1	16	200
	22	697.62	36,220	-214	-2	0	0	191	1	20	212
	23	697.30	36,007	-213	-17	0	0	178	1	17	196
	24	697.03	35,828	-179	-26	0	0	138	1	14	153
	25	696.73	35,630	-198	8	0	0	196	1	9	206
	26	696.35	35,380	-250	3	0	0	247	1	5	253
	27	695.98	35,136	-244	12	0	0	245	1	10	256
	28	695.61	34,896	-240	16	0	0	249	0	7	256
	29	695.22	34,644	-252	12	0	0	253	0	11	264
	30	694.86	34,412	-232	23	0	0	243	0	12	255
Total				-3,855	243	874	0	4,521	27	424	4,972
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											
2/ To East Bay Regional Park District.											
NR=No Records											

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

June 2001

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant /2	Deliveries 3/		
May 31	221.34	46,653											
1	222.03	48,464	1,811	0	0	8,834	0	1,286	0	5,805	29	-801	
2	221.13	46,101	-2,363	0	0	6,626	270	1,110	0	6,672	28	-277	
3	219.77	42,557	-3,544	0	0	4,599	662	975	0	6,081	26	34	
4	219.88	42,841	284	0	0	6,251	895	1,033	0	6,172	28	230	
5	220.00	43,152	311	0	0	7,677	625	1,193	0	6,494	27	-431	
6	220.93	45,577	2,425	0	0	8,534	0	968	0	6,476	25	158	
7	220.37	44,114	-1,463	0	0	7,305	0	414	0	7,430	29	-170	
8	220.92	45,551	1,437	0	0	8,185	0	375	0	6,898	28	-160	
9	221.17	46,206	655	0	0	7,310	0	522	0	6,396	29	-33	
10	221.92	48,176	1,970	0	0	9,234	0	656	0	7,219	28	-338	
11	220.62	44,766	-3,410	0	0	5,180	0	691	0	6,194	27	13	
12	220.72	45,027	261	0	0	7,976	0	547	0	6,963	25	-309	
13	221.09	45,996	969	0	0	8,855	0	476	0	7,482	26	-382	
14	222.26	49,075	3,079	0	136	8,876	0	284	0	7,009	28	-139	
15	222.85	50,646	1,571	0	606	7,319	0	0	0	6,627	26	-480	
16	222.90	50,779	133	0	708	6,688	0	0	0	7,123	28	-178	
17	221.06	45,918	-4,861	0	784	4,130	0	0	0	6,887	28	-450	
18	221.24	46,390	472	0	460	7,244	0	828	284	6,173	25	-156	
19	220.30	43,931	-2,459	0	0	8,076	0	1,997	0	6,472	26	-821	
20	222.00	48,385	4,454	0	35	11,342	0	1,013	0	7,439	25	-654	
21	222.86	50,673	2,288	0	0	8,388	0	885	0	6,346	25	22	
22	223.15	51,447	774	0	0	8,839	0	1,391	0	7,115	23	80	
23	223.94	53,565	2,118	0	0	9,088	0	1,399	0	5,931	28	-662	
24	221.68	47,546	-6,019	0	0	5,944	0	1,393	0	7,560	28	2	
25	222.69	50,219	2,673	0	0	8,409	0	1,331	0	6,312	27	609	
26	222.43	49,527	-692	0	0	7,050	0	780	0	6,311	29	-278	
27	222.91	50,806	1,279	0	0	7,717	0	381	0	6,545	26	-120	
28	221.90	48,124	-2,682	0	0	6,289	0	543	0	6,886	27	-185	
29	222.14	48,756	632	0	218	6,511	0	290	0	6,031	28	-61	
30	222.84	50,619	1,863	0	355	7,302	0	12	0	6,446	29	-230	
Total				3,966	0	3,302	225,778	2,452	22,773	284	199,495	812	-6,169
Mean cfs				---	0	110	7,526	82	759	9	6,650	27	-206
Acre-feet				3,966	0	6,549	447,828	4,863	45,169	563	395,698	1,608	-12,236

1/ Pump-in located at Mile 79.67R.

2/ CVC transfer incorporated in D. A. pumping; total CVC transfer = 4,367 AF.

3/ Includes 14 AF delivered to DFG at O'Neill Forebay.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

June 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 2,027,835 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
May 31	498.73	1,493,135						
1	497.27	1,476,472	-16,663	0	8,834	363	0	796
2	496.04	1,462,484	-13,988	0	6,626	347	0	-79
3	495.18	1,452,730	-9,754	0	4,599	332	0	13
4	494.02	1,439,609	-13,121	0	6,251	354	0	-10
5	492.61	1,423,714	-15,895	0	7,677	369	0	32
6	491.05	1,406,198	-17,516	0	8,534	374	0	77
7	489.71	1,391,211	-14,987	0	7,305	377	0	126
8	488.20	1,374,387	-16,824	0	8,185	381	0	84
9	486.85	1,359,404	-14,983	0	7,310	376	0	132
10	485.14	1,340,505	-18,899	0	9,234	359	0	65
11	484.14	1,329,494	-11,011	0	5,180	384	0	13
12	482.70	1,313,692	-15,802	0	7,976	374	0	383
13	481.05	1,295,662	-18,030	0	8,855	380	0	145
14	479.38	1,277,499	-18,163	0	8,876	381	0	100
15	477.98	1,262,339	-15,160	0	7,319	383	0	59
16	476.70	1,248,530	-13,809	0	6,688	374	0	100
17	475.95	1,240,442	-8,088	0	4,130	359	0	411
18	474.63	1,226,298	-14,144	284	7,244	376	0	205
19	473.12	1,210,182	-16,116	0	8,076	382	0	333
20	470.97	1,187,353	-22,829	0	11,342	396	0	229
21	469.36	1,170,350	-17,003	0	8,388	313	0	129
22	467.65	1,152,376	-17,974	0	8,839	323	0	100
23	465.88	1,133,867	-18,509	0	9,088	382	0	139
24	464.68	1,121,373	-12,494	0	5,944	366	0	11
25	463.02	1,104,165	-17,208	0	8,409	376	0	109
26	461.63	1,089,822	-14,343	0	7,050	355	0	174
27	460.11	1,074,209	-15,613	0	7,717	451	0	297
28	458.85	1,061,322	-12,887	0	6,289	500	0	292
29	457.55	1,048,080	-13,242	0	6,511	500	0	335
30	456.07	1,033,071	-15,009	0	7,302	501	0	236
Total			-460,064	284	225,778	11,488	0	5,036
Mean cfs			---	9	7,526	383	0	168
Acre-feet			-460,064	563	447,828	22,785	0	9,986

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 18,290 AF, San Benito: 4495 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**June 2001**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	11,515	6,417	17,522	9,092	0	0	720
2	13,233	8,138	13,142	5,248	0	0	689
3	12,061	6,942	9,122	3,381	0	0	658
4	12,242	7,299	12,398	6,652	0	0	702
5	12,880	8,004	15,227	6,840	0	0	731
6	12,846	7,743	16,928	7,591	0	0	741
7	14,737	8,059	14,489	4,557	0	0	747
8	13,682	7,039	16,235	6,748	0	0	755
9	12,686	5,911	14,499	4,833	0	0	745
10	14,319	7,593	18,316	8,564	0	0	713
11	12,285	5,754	10,275	7,657	0	0	762
12	13,812	7,273	15,821	11,024	0	0	742
13	14,841	8,251	17,564	9,229	0	0	753
14	13,903	7,280	17,605	9,158	0	0	756
15	13,144	5,810	14,518	6,215	0	0	760
16	14,128	6,395	13,265	7,289	0	0	742
17	13,661	5,950	8,191	1,740	0	0	712
18	12,245	4,540	14,369	5,505	563	563	745
19	12,837	5,268	16,018	5,126	0	0	758
20	14,755	7,232	22,496	7,357	0	0	785
21	12,588	5,038	16,638	5,850	0	0	621
22	14,112	6,472	17,532	6,921	0	0	640
23	11,764	4,076	18,027	7,278	0	0	758
24	14,995	7,189	11,789	1,184	0	0	726
25	12,519	3,564	16,679	5,833	0	0	746
26	12,518	4,814	13,984	3,191	0	0	705
27	12,982	5,302	15,307	1,824	0	0	895
28	13,659	6,038	12,475	6,944	0	0	992
29	11,963	4,250	12,914	1,745	0	0	992
30	12,786	5,098	14,483	3,965	0	0	994
Total	395,698	188,739	447,828	178,541	563	563	22,785

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;  
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations

June 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
May 31	326.84	20,128					
1	326.84	20,128	0	0	0	0	0
2	326.75	20,086	-42	0	0	0	-42
3	326.72	20,072	-14	0	0	0	-14
4	326.68	20,053	-19	0	0	0	-19
5	326.65	20,039	-14	0	0	0	-14
6	326.63	20,030	-9	0	0	0	-9
7	326.62	20,026	-4	0	0	0	-4
8	326.57	20,002	-24	0	0	0	-24
9	326.55	19,993	-9	0	0	0	-9
10	326.51	19,975	-18	0	0	0	-18
11	326.47	19,956	-19	0	0	0	-19
12	326.45	19,947	-9	0	0	0	-9
13	326.41	19,929	-18	0	0	0	-18
14	326.39	19,919	-10	0	0	0	-10
15	326.37	19,910	-9	0	0	0	-9
16	326.35	19,901	-9	0	0	0	-9
17	326.33	19,892	-9	0	0	0	-9
18	326.31	19,882	-10	0	0	0	-10
19	326.29	19,873	-9	0	0	0	-9
20	326.27	19,864	-9	0	0	0	-9
21	326.24	19,850	-14	0	0	0	-14
22	326.21	19,836	-14	0	0	0	-14
23	326.16	19,813	-23	0	0	0	-23
24	326.12	19,795	-18	0	0	0	-18
25	326.08	19,777	-18	0	0	0	-18
26	326.06	19,767	-10	0	0	0	-10
27	326.02	19,749	-18	0	0	0	-18
28	326.01	19,744	-5	0	0	0	-5
29	326.00	19,740	-4	0	0	0	-4
30	325.99	19,735	-5	0	0	0	-5
Total			-393	0	0	0	-393
Mean cfs			---	0	0	0	---
Acre-feet			-393	0	0	0	-393

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

June 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
May 31	602.20	803			1	0	1
1	Not Observed				1	0	1
2	Not Observed				1	0	1
3	Not Observed				1	0	1
4	Not Observed				1	0	1
5	601.85	783	-20	0	0	0	1
6	Not Observed				1	0	1
7	Not Observed				1	0	1
8	Not Observed				1	0	1
9	Not Observed				1	0	1
10	Not Observed				1	0	1
11	Not Observed				1	0	1
12	Not Observed				1	0	1
13	Not Observed				1	0	1
14	Not Observed				1	0	1
15	601.75	777	-6	0	0	0	0
16	Not Observed				0	0	0
17	Not Observed				0	0	0
18	Not Observed				0	0	0
19	Not Observed				0	0	0
20	Not Observed				0	0	0
21	Not Observed				0	0	0
22	601.55	766	-11	0	0	0	0
23	Not Observed				0	0	0
24	Not Observed				0	0	0
25	Not Observed				0	0	0
26	Not Observed				0	0	0
27	Not Observed				0	0	0
28	Not Observed				0	0	0
29	601.40	758	-8	0	0	0	0
30	601.40	758			0	0	0
<b>Total</b>			<b>-45</b>	<b>13</b>	<b>0</b>	<b>14</b>	<b>---</b>
<b>Mean cfs</b>			<b>---</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>---</b>
<b>Acre-feet</b>			<b>-45</b>	<b>26</b>	<b>0</b>	<b>28</b>	<b>-47</b>

1/ Not available on a daily basis

**Table 19a. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

(In acre-feet)

**June 2001**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer 1/	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		45,169						
3	13	O'Neill Forebay and San Luis Reservoir Outlet Check No. 13	70.85	Department of Parks and Recreation Department of Fish & Game	14			8	6		
		Thru	70.91	San Luis Water District	1,594	1,594					
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	1,608	1,594	0	8	6		
		Dos Amigos Pumping Plant	86.73		395,698						
		Thru	89.03	San Luis Water District	10,870	10,870					
			94.06								
4	14		89.66	Pacheco Water District	2,506	2,506					
			89.67								
			89.68	Panoche Water District	2	2					
			89.70	City of Dos Palos	175	175					
			95.06								
	Thru	98.15	San Luis Water District	1,071	1,071						
		104.20									
		96.15	Panoche Water District	11,628	11,628						
		102.64	(Floodwater Inflow)	0							
		102.64	Broadview Water District	3	3						
		105.22	Westlands Water District	25,592	23,358	2,234					
		108.64									
	Check No.15	108.50									
				Pacheco Water District Total:	2,506	2,506	0	0	0		
				Broadview Water District Total:	3	3	0	0	0		
				City of Dos Palos Total:	175	175	0	0	0		
				SLWD Reach 4 Subtotal:	11,941	11,941	0	0	0		
				Panoche Water District Total:	11,630	11,630	0	0	0		
				SLWD Total:	13,535	13,535	0	0	0		
				Westlands WD Reach 4 Subtotal:	25,592	23,358	2,234	0	0		

1/ CVC water transferred to Westlands WD; 1,332 AF from Lower Tule River ID and 902 AF from Pixley ID.

**Table 19b. Governor Edmund G. Brown California Aqueduct**  
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**June 2001**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure	Mile										
5	16		110.52	(Reverse flow, Kings River)	0	26,065		1					
			Thru	Westlands Water District	26,065								
			122.05	Department of Fish and Game	1								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	20,464	20,464							
			Thru										
		Check No. 17	132.74										
	18		133.81	Westlands Water District	21,291	21,291							
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	18,632								
			143.16	City of Coalinga	513								
		Check No. 18	143.23										
				Westlands WD Reach 5 Subtotal:	86,452	86,452	0	0	0				
6	19		145.26	Westlands Water District	32,536	32,536							
			Thru										
		Check No. 19	151.19										
			155.64										
				Westlands WD Reach 6 Subtotal:	32,536	32,536	0	0	0				
7	20		156.34	City of Huron	102	102							
			156.40	Westlands Water District	16,731								
			Thru										
			163.69										
		Check No. 20	164.69			16,731							
	21		164.79	City of Avenal	255		255						
			167.04	Westlands Water District	6,463								
			Thru										
			171.67										
		Check No. 21	172.40		201,042	6,463							
				Reach 7 Total:	23,551	23,551	0	0	0				
				Westlands WD Total:	167,774	165,540	2,234	0	0				
				City of Coalinga Total:	513	513	0	0	0				
				City of Huron Total:	102	102	0	0	0				
				City of Avenal Total:	255	255	0	0	0				
				Phase I Water Total:	0	0	0	0	0				
				Total San Luis Field Division Deliveries:	196,508	194,259	2,234	9	6				

**Table 20. Consolidated State-Federal San Luis Canal 1**

Daily Operations  
June 2001

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	Pools 14 & 15 2/	Pool 15	Pools 15 thru 21 3/	Flow Past Check 21	
May 31	27,432								
1	27,295	-137	0	5,805	235	148	2,723	2,787	19
2	28,534	1,239	0	6,672	196	157	2,694	2,837	-163
3	28,192	-342	0	6,081	243	134	2,683	3,366	173
4	28,782	590	0	6,172	294	193	2,618	2,929	160
5	29,075	293	0	6,494	256	148	2,678	3,308	44
6	28,591	-484	0	6,476	257	167	2,810	3,306	-180
7	29,456	865	0	7,430	274	188	2,868	3,443	-221
8	29,626	170	0	6,898	275	187	2,990	3,235	-125
9	28,679	-947	0	6,396	259	172	2,982	3,246	-214
10	29,429	750	0	7,219	228	170	2,916	3,427	-100
11	28,929	-500	0	6,194	210	244	2,986	3,226	220
12	28,701	-228	0	6,963	238	175	2,904	3,617	-144
13	29,619	918	0	7,482	239	176	2,908	3,621	-75
14	28,606	-1,013	0	7,009	250	210	2,893	4,085	-82
15	28,605	-1	0	6,627	250	210	2,867	3,358	57
16	28,534	-71	0	7,123	298	118	2,667	3,559	-517
17	29,508	974	0	6,887	222	173	2,649	3,040	-312
18	28,802	-706	0	6,173	219	297	2,893	3,235	115
19	28,487	-315	0	6,472	241	208	2,830	3,302	-50
20	29,426	939	0	7,439	220	209	2,726	3,634	-177
21	28,987	-439	0	6,346	236	238	3,515	2,904	326
22	29,429	442	0	7,115	238	244	3,662	4,196	1,447
23	28,396	-1,033	0	5,931	173	231	2,720	3,400	72
24	28,976	580	0	7,560	249	222	2,660	4,437	300
25	29,024	48	0	6,312	250	234	2,921	2,571	-312
26	29,024	0	0	6,311	269	201	2,649	3,385	193
27	28,709	-315	0	6,545	270	201	2,642	3,743	152
28	29,837	1,128	0	6,886	248	193	2,628	3,360	112
29	29,186	-651	0	6,031	249	194	2,659	3,363	106
30	29,066	-120	0	6,446	286	221	2,684	3,435	121
Total		1,634	0	199,495	7,372	5,863	85,025	101,357	947
Mean cfs		---	0	6,679	244	195	2,846	3,377	32
Acre-feet		1,634	0	395,698	14,622	11,630	168,648	201,042	1,878

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 2505 AF AG & 1 AF M&I to Pacheco W.D. and 175 AF to the City of Dos Palos.

3/ Includes 102 AF to the City of Huron, 255 AF to the City of Avenal, 513 AF to the City of Coalinga, 3 AF to F&G @ WWD Lateral 4L, and 1 AF to Broadview W.D.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

June 2001

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	486	486	80	76	80	4,580	4,032	3,783	3,411
2	494	494	96	90	89	4,236	3,741	3,666	3,500
3	535	535	78	72	78	4,743	4,350	4,072	3,892
4	394	394	102	96	107	4,403	4,068	3,787	3,771
5	434	434	68	64	68	4,893	4,420	4,171	3,967
6	374	374	91	85	90	4,704	3,906	3,539	3,420
7	398	398	83	79	85	3,846	3,334	3,125	3,031
8	405	405	95	86	92	4,021	3,495	3,204	2,988
9	628	628	104	97	102	3,346	3,016	2,833	2,746
10	527	527	70	65	71	3,367	3,074	2,784	2,659
11	439	439	91	83	83	4,273	3,967	3,760	3,645
12	467	467	96	91	95	4,262	3,888	3,618	3,414
13	405	405	83	79	82	4,854	4,130	3,828	3,591
14	434	434	98	93	94	5,096	4,427	4,055	3,978
15	469	469	93	87	89	4,595	4,261	3,881	3,763
16	612	612	89	84	86	4,484	3,913	3,644	3,500
17	441	441	105	99	99	4,443	4,277	4,069	3,868
18	416	416	97	90	94	3,990	3,641	3,339	3,295
19	481	481	105	99	99	4,378	3,854	3,634	3,384
20	444	444	128	122	121	4,953	4,498	4,095	3,962
21	454	454	119	112	113	4,810	4,214	3,854	3,701
22	516	516	139	130	120	5,096	4,439	4,107	3,970
23	577	577	121	118	119	4,442	3,977	3,678	3,462
24	544	544	139	134	130	6,455	6,204	5,885	5,801
25	464	464	122	114	115	3,831	3,448	3,171	2,954
26	503	503	131	122	122	5,027	4,555	4,168	3,983
27	498	498	127	119	119	5,309	4,780	4,446	4,354
28	483	483	136	128	129	4,961	4,635	4,268	4,053
29	466	466	103	96	99	5,153	4,622	4,294	4,131
30	521	521	87	79	85	4,691	4,260	3,940	3,849
Total	14,309	14,309	3,076	2,889	2,955	137,242	123,426	114,698	110,043

**Table 22a. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

June 2001

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	USBR	Dry Year Purchase 2001	Kern Water Bank Return	Other		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		201,042							
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	0	3,371 1,137 130 1,026 701 6,047 178		3,310				
				County of Kings TL - A	0							
				TLBWSD TL-A	3,371							
8D			175.18	DRWD - 1	1,137							
			177.54	DRWD - 1B	130							
			180.64	TLBWSD - C	0							
			180.65	DRWD - 1A	1,026							
			182.99	DRWD - 2	4,011							
			183.00	Tulare Lake Basin WSD TL - B	6,047							
31A			184.63	Coastal Branch	14,309							
8D			184.78	Dudley Ridge Water Dist. DRWD - 3	2,578	3,172 9,418	0 0	3,310 0	1,100 0	a/ 1,300 0		
				Dudley Ridge Reach 8D Total:	8,882							
				Tulare Lake Basin WSD Total:	9,418							
Check No. 22		184.82										
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	6,071	6,071 1,325 506 1,350		0 0	0 0	0 0		
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	1,325							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	506							
			196.40	Kern County Water Agency Berrenda Mesa - 2	0							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	1,350							
			K.C.W.A. Reach 9 Subtotal:		9,252							
		Check No. 23	197.05									
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	681	681 1,581 2,336 1,627	0 260 260	0 0 984	0 0 276 6,910	0 0 b/ 1,000		
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	1,581							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0							
		Check No. 24	207.94									
		209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	3,320								
10A	25		209.78	Kern National Wildlife Refuge USBR BV-1B	260	0 260 6,225	0 0 0	0 0 8,170	0 0 1,000	0 0 0		
				Kern County Water Agency Buena Vista WSD 1B	1,627							
			209.80	KCWA Semitropic WSD	276							
				KCWA Semitropic WSD Penstocks	7,910							
				USBR Total:	260							
				K.C.W.A. Reach 10A Subtotal:	15,395							

a/ Water returned to Dudley Ridge WD from San Gabriel Valley Municipal WD.

b/ CVP Exchange; 280 AF from Rag Gulch Account #246 Ag., and 720 AF from Kern-Tulare account #247 Ag.

**Table 22b. Governor Edmund G. Brown California Aqueduct**  
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**June 2001**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Federal Wheeling	Purchase Pool A	Kern Water Bank Return	Local		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	52	9,484	78	22	3,994		
			214.11	Kern County Water Agency Belridge - 3	74							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5	13,478							
				Kern County Water Agency Belridge - 5D	78							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	13,630	9,614	0	0	4,016	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	2	2,612	662	1,655			
				Kern County Water Agency West Kern - 2	2							
	Check No. 26	224.92										
12E	27		230.37	Kern County Water Agency Buena Vista - 6	2,612	2,612	662	1,655				
			Check No. 27	231.73								
	28		235.75	Kern County Water Agency Buena Vista - 2	2,317	2,612	662	1,655				
				Kern County WA CVC	0							
			238.04	DRWD CVC	0							
				Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
				DWR Wells	0							
	Check No. 28	238.11										
13B	29		238.19	1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	4,929							
			241.02	Kern Water Bank Inflow	0	3,274	2,273	649	885			
				Kern Water Bank Outflow	0							
				Kern River Intertie (inflow)	0							
				KCWA Buena Vista WSD - 7	885							
				KCWA Buena Vista WSD - 5	2,273							
				Kern County Water Agency Buena Vista - 3	649							
				Check No. 29	244.54							
	30		249.85	Kern County Water Agency Buena Vista - 4	2,041	2,041						
			Buena Vista Pumping Plant	250.99	137,242							
14A	31			K.C.W.A. Reach 13B Subtotal:	5,848	4,963	0	0	885	0		
			254.47	Kern County Water Agency West Kern - 2	0							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	161	124				37		

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

**Table 22c. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

June 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Entitlement	Inter-ruptible Ent.	MWD Ent. Exchange	Kern Water Bank Return	Local 1/		
	No.	Structure										
14A	31	Check No. 31	256.14			391	1,622	0	629	0		
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3	506				115		
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4	2,099				477		
		Check No. 32	261.72									
		KCWA Reach 14A Subtotal:	2,766									
14B	33		264.42		Kern County Water Agency Wheeler Ridge-Maricopa - 5	5,301	4,096	668	0	1,205		
			266.91		Kern County Water Agency Wheeler Ridge-Maricopa - 6	864				196		
		Check No. 33	267.36									
	34		270.24		Kern County Water Agency Wheeler Ridge-Maricopa - 7	4,083	3,087	0	908	88		
			271.27									
			Reach 14B Total:		10,248							
14C	35		272.39		Kern County Water Agency Wheeler Ridge-Maricopa - 8	3,121	2,394	970	0	705		
			276.09		Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,271				286		
			Reach 14C Total:		4,392	15						
	Teerink Pumping Plant		278.13			123,426	3,364	0	991	37		
15A	36		279.02		Kern County Water Agency Wheeler Ridge-Maricopa - 9A	865				197		
			280.06		Kern County Water Agency Wheeler Ridge-Maricopa - 10	6,173				1,403		
			Reach 15-A Total:		7,038							
	Chrisman Pumping Plant		280.36		114,698	5,438	0	1,600	0			
16A	37		282.06		Kern County Water Agency Wheeler Ridge-Maricopa - 11					0		
		Check No. 37	283.95									
	38		285.01		Kern County Water Agency Wheeler Ridge-Maricopa - 12	10	10	175	0	52		
			286.39		Kern County Water Agency Wheeler Ridge-Maricopa - 13A	227						
			287.06		Kern County Water Agency Wheeler Ridge-Maricopa - 13	0						
	39		287.09				173	0	0	51		
			287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	224							
17E	40		290.21				1,220	476	0	359		
			291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,579							
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	615							
			Kern County Water Agency Tehachapi Cummings CWD	446								
			K.C.W.A. Reach 16A Subtotal:	3,101								
	Edmonston Pumping Plant		293.45			110,043	2,500	0	601	0		

1/ Return of water that the contractor had pumped into the aqueduct.

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

June 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
		Beginning and Ending				Entitlement	Inter-ruptible Ent.	MWD Ent.	Kern Water Bank Return	Local 1/		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		14,309	6	1,029	222	1,778			
		Las Perillas Pumping Plant	1.16		14,309							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		14,309							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	6							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	1,251							
			14.83	Kern County Water Agency Berrenda Mesa - DD	0							
				Kern County Water Agency Berrenda Mesa - PO	10,017							
		Devil's Den Pumping Plant	14.86		3,076							
				K.C.W.A. Reach 31A Subtotal:	11,268	9,268	0	0	2,000	0		
				K.C.W.A. Total:	87,867	63,886	0	0	22,856	1,125		
33A	C-7	Bluestone Pumping Plant	19.05		2,889	2,499	437					
	C-8	Polonio Pass Pumping Plant	26.54		2,955							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,499							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	437							
		Energy Dissipater	78.12									
35	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0							
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
		Tank Site 5	115.42	SBCFC & WCD Total:	0							

1/ Return of water that the contractor had pumped into the aqueduct.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

June 2001

Date	West Branch					East Branch							
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume	
1	1,294	1,648	0	6,523	5,416	2,021	0	0	1,547	1,838	0	0	2,001
2	1,526	1,342	0	345	2,999	1,776	0	0	1,745	1,603	0	0	1,712
3	2,238	1,931	0	1,947	5,742	1,650	0	0	1,609	1,364	0	0	1,929
4	1,581	1,331	0	2,964	973	1,804	0	0	1,773	1,933	0	0	1,868
5	1,695	1,374	0	3,840	1,915	1,950	0	0	1,731	1,829	0	0	1,863
6	848	823	0	5,935	2,243	2,231	0	0	2,012	2,072	0	0	1,873
7	987	955	0	9,324	1,083	1,939	0	0	1,637	1,604	0	0	1,781
8	1,019	1,424	0	5,608	2,679	1,825	0	0	1,642	1,768	0	0	1,890
9	1,165	1,443	0	1,038	4,717	1,642	0	0	1,388	1,305	0	0	1,572
10	287	0	0	2,353	5,955	2,336	0	0	1,835	2,026	0	0	1,862
11	1,169	1,450	0	2,702	5,739	2,036	0	0	2,066	2,220	0	0	2,274
12	1,175	1,518	0	6,135	1,860	2,053	0	0	1,737	1,792	0	0	2,090
13	1,268	1,436	0	1,733	2,205	2,072	0	0	1,805	1,661	0	0	2,239
14	1,708	1,613	0	7,679	2,951	2,164	0	0	1,985	2,041	0	0	2,307
15	1,597	1,405	0	9,385	3,930	2,047	0	0	1,882	1,805	0	0	2,184
16	1,446	1,775	0	3,140	2,711	1,866	0	0	1,388	1,637	0	0	2,134
17	834	130	0	2,905	5,663	3,057	0	0	2,729	2,378	0	0	1,779
18	1,271	1,366	0	9,798	5,474	2,019	0	0	1,676	2,224	0	0	1,914
19	1,071	1,552	0	6,020	6,265	2,175	0	0	1,762	1,728	0	0	2,124
20	1,528	1,471	0	6,396	4,773	2,243	0	0	1,852	1,714	0	0	1,929
21	1,589	1,475	0	7,588	1,364	2,015	0	0	1,730	1,960	0	0	1,825
22	1,693	1,783	0	7,456	2,587	2,162	0	0	1,870	1,975	0	0	2,380
23	1,229	1,043	0	1,460	5,517	2,080	0	0	1,785	1,811	0	0	2,159
24	1,552	568	0	345	7,534	3,549	0	0	3,872	3,487	0	0	2,402
25	851	1,363	0	3,520	1,738	2,087	0	0	1,451	1,684	0	0	2,385
26	1,504	1,379	0	7,983	652	2,382	0	0	1,965	2,034	0	0	2,343
27	1,843	1,377	0	5,016	2,349	2,323	0	0	1,981	2,182	0	0	2,329
28	1,558	1,157	0	7,190	4,834	2,246	0	0	2,212	2,164	0	0	2,388
29	1,292	1,662	0	7,699	2,984	2,394	0	0	2,148	2,022	0	0	2,364
30	1,429	1,354	0	4,084	4,113	2,336	0	0	2,317	2,509	0	0	1,932
Total	40,247	39,148	0	148,111	108,965	64,480	0	0	57,132	58,370	0	0	61,832

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek	
May 31	2568.66	158,122								
1	2568.86	158,368	246	5,416	1,648	41	6,523	0	52	-284
2	2572.01	162,283	3,915	2,999	1,342	43	345	0	52	-72
3	2576.41	167,856	5,573	5,742	1,931	42	1,947	0	52	-143
4	2575.83	167,115	-741	973	1,331	40	2,964	0	52	-69
5	2575.38	166,541	-574	1,915	1,374	39	3,840	0	52	-10
6	2573.10	163,652	-2,889	2,243	823	37	5,935	0	52	-5
7	2567.08	156,184	-7,468	1,083	955	35	9,324	0	52	-165
8	2565.81	154,636	-1,548	2,679	1,424	35	5,608	0	52	-26
9	2570.00	159,778	5,142	4,717	1,443	32	1,038	0	52	40
10	2572.84	163,325	3,547	5,955	0	33	2,353	0	52	-36
11	2576.33	167,754	4,429	5,739	1,450	30	2,702	0	52	-36
12	2574.16	164,991	-2,763	1,860	1,518	30	6,135	0	52	16
13	2575.51	166,706	1,715	2,205	1,436	28	1,733	1	52	-168
14	2573.04	163,577	-3,129	2,951	1,613	28	7,679	0	52	10
15	2569.76	159,481	-4,096	3,930	1,405	28	9,385	0	52	-22
16	2570.77	160,735	1,254	2,711	1,775	27	3,140	0	52	-67
17	2573.01	163,539	2,804	5,663	130	26	2,905	0	52	-58
18	2570.60	160,523	-3,016	5,474	1,366	25	9,798	0	52	-31
19	2572.02	162,296	1,773	6,265	1,552	24	6,020	0	52	4
20	2571.84	162,070	-226	4,773	1,471	24	6,396	0	52	-46
21	2567.89	157,175	-4,895	1,364	1,475	24	7,588	0	52	-118
22	2565.36	154,090	-3,085	2,587	1,783	23	7,456	0	52	30
23	2569.49	159,146	5,056	5,517	1,043	23	1,460	0	52	-15
24	2575.63	166,859	7,713	7,534	568	22	345	0	52	-14
25	2575.25	166,375	-484	1,738	1,363	23	3,520	0	52	-36
26	2570.60	160,523	-5,852	652	1,379	23	7,983	0	52	129
27	2569.54	159,208	-1,315	2,349	1,377	23	5,016	0	51	3
28	2568.54	157,974	-1,234	4,834	1,157	23	7,190	0	51	-7
29	2565.53	154,297	-3,677	2,984	1,662	23	7,699	0	51	-596
30	2566.59	155,585	1,288	4,113	1,354	22	4,084	0	51	-66
Total			-2,537	108,965	39,148	876	148,111	1	1,556	-1,858

**Table 26. Elderberry Forebay**

Daily Operation  
(in acre-feet except as noted)

Capacity: 32,746 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
May 31	1524.65	25,260								
1	1521.04	23,686	-1,574	6,523	1	5,416	1	2,681	0	
2	1514.75	21,059	-2,627	345	2	2,999	2	0	27	
3	1505.08	17,339	-3,720	1,947	1	5,742	1	0	75	
4	1510.33	19,311	1,972	2,964	1	973	1	0	-19	
5	1509.26	18,901	-410	3,840	1	1,915	1	2,334	-1	
6	1512.28	20,072	1,171	5,935	1	2,243	1	2,520	-1	
7	1528.08	26,800	6,728	9,324	1	1,083	1	1,514	1	
8	1534.08	29,599	2,799	5,608	1	2,679	1	0	-130	
9	1526.27	25,982	-3,617	1,038	0	4,717	0	0	62	
10	1517.96	22,379	-3,603	2,353	0	5,955	0	0	-1	
11	1510.62	19,424	-2,955	2,702	0	5,739	0	0	82	
12	1516.21	21,654	2,230	6,135	0	1,860	0	2,044	-1	
13	1509.77	19,096	-2,558	1,733	0	2,205	0	2,085	-1	
14	1518.24	22,497	3,401	7,679	0	2,951	0	1,328	1	
15	1523.07	24,566	2,069	9,385	0	3,930	0	3,384	-2	
16	1524.00	24,974	408	3,140	0	2,711	0	0	-21	
17	1517.74	22,288	-2,686	2,905	0	5,663	0	0	72	
18	1527.57	26,568	4,280	9,798	0	5,474	0	0	-44	
19	1522.53	24,330	-2,238	6,020	0	6,265	0	1,992	-1	
20	1521.40	23,841	-489	6,396	0	4,773	0	2,113	1	
21	1529.30	27,358	3,517	7,588	0	1,364	0	2,707	0	
22	1534.40	29,752	2,394	7,456	0	2,587	0	2,476	1	
23	1525.78	25,762	-3,990	1,460	0	5,517	0	0	67	
24	1508.52	18,619	-7,143	345	0	7,534	0	0	46	
25	1513.02	20,365	1,746	3,520	0	1,738	0	0	-36	
26	1524.63	25,251	4,886	7,983	0	652	0	2,445	0	
27	1525.98	25,852	601	5,016	0	2,349	0	2,068	2	
28	1526.90	26,265	413	7,190	0	4,834	0	1,941	-2	
29	1533.65	29,394	3,129	7,699	0	2,984	0	1,587	1	
30	1533.70	29,418	24	4,084	0	4,113	0	0	53	
Total				4,158	148,111	9	108,965	9	35,219	
									231	

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
May 31	1497.59	286,151							
1	1498.44	287,921	1,770	1	2,681	2	1,202	0 288	
2	1497.96	286,920	-1,001	2	0	2	1,020	0 15	
3	1497.48	285,922	-998	1	0	3	886	0 -116	
4	1496.91	284,739	-1,183	1	0	2	1,155	0 -31	
5	1497.38	285,714	975	1	2,335	2	1,302	0 -61	
6	1497.90	286,795	1,081	1	2,521	2	1,379	0 -64	
7	1497.94	286,879	84	1	1,513	2	1,274	0 -158	
8	1497.39	285,735	-1,144	1	0	2	1,175	0 28	
9	1496.76	284,428	-1,307	0	0	1	1,275	0 -33	
10	1496.19	283,249	-1,179	0	0	1	1,236	0 56	
11	1495.56	281,949	-1,300	0	0	1	1,208	0 -93	
12	1495.91	282,671	722	0	2,043	1	1,232	0 -90	
13	1496.33	283,539	868	0	2,085	1	1,199	0 -19	
14	1496.30	283,477	-62	0	1,328	1	1,281	0 -110	
15	1497.17	285,278	1,801	0	3,384	0	1,459	0 -124	
16	1496.36	283,601	-1,677	0	0	0	1,667	0 -10	
17	1495.70	282,238	-1,363	0	0	0	1,380	0 17	
18	1494.98	280,756	-1,482	0	0	0	1,367	0 -115	
19	1495.13	281,064	308	0	1,992	0	1,631	0 -53	
20	1495.37	281,558	494	0	2,113	0	1,594	0 -25	
21	1495.77	282,382	824	0	2,707	0	1,707	60 -116	
22	1495.99	282,836	454	0	2,476	0	1,779	60 -183	
23	1495.09	280,982	-1,854	0	0	0	1,903	59 108	
24	1494.19	279,134	-1,848	0	0	0	1,787	0 -61	
25	1493.35	277,417	-1,717	0	0	0	1,691	0 -26	
26	1493.60	277,927	510	0	2,445	0	1,690	0 -245	
27	1493.69	278,111	184	0	2,068	0	1,772	0 -112	
28	1493.72	278,173	62	0	1,941	0	1,803	0 -76	
29	1493.76	278,254	81	0	1,587	0	1,880	0 374	
30	1492.84	276,377	-1,877	0	0	0	1,865	0 -12	
Total			-9,774	9	35,219	23	43,799	179 -1,047	

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**June 2001**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Entitle-ment	Rec.	Local	State Water Bank Recovery	CLWA T1		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		40,247							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved		1					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07		39,148							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	1		31					
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	( 108,965 AF pumpback )	148,111							
29J	W4	Elderberry Forebay					26,586	13,220	1,203			
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	31		2,605	154		1,203		
		Castaic Dam	31.47									
				MWD - 78"	0							
				MWD - 132"	39,806							
		Castaic Lake Outlet	31.55	Castaic Lake WA - T1	1,203							
				Castaic Lake WA	2,605							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	179							
				Reach 30 Subtotal:	43,799							
	W6	Castaic Lagoon		Recreation to Lagoon	147		147					
		Castaic Lagoon Outlet	31.87		124							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel					
May 31	3353.00	73,032												
1	3352.69	72,734	-298	1,838	0	4	6	0	2,001	0	0	-133	10	
2	3352.69	72,734	0	1,603	0	4	7	0	1,712	0	1	113	10	
3	3352.19	72,255	-479	1,364	0	4	5	1	1,929	0	0	88	10	
4	3352.21	72,274	19	1,933	0	4	8	0	1,868	0	1	-41	10	
5	3352.19	72,255	-19	1,829	0	4	5	0	1,863	0	0	16	8	
6	3352.40	72,456	201	2,072	0	3	6	1	1,873	0	1	7	10	
7	3352.04	72,111	-345	1,604	0	3	5	0	1,781	0	0	-166	10	
8	3352.04	72,111	0	1,768	0	3	6	0	1,890	0	1	126	7	
9	3351.75	71,834	-277	1,305	0	2	5	1	1,572	0	0	-6	6	
10	3351.90	71,977	143	2,026	0	2	4	0	1,862	0	0	-19	6	
11	3351.87	71,949	-28	2,220	0	2	4	0	2,274	0	1	29	6	
12	3351.44	71,539	-410	1,792	0	3	3	1	2,090	0	0	-111	6	
13	3350.86	70,989	-550	1,661	0	3	4	0	2,239	0	1	30	6	
14	3350.60	70,742	-247	2,041	0	2	5	0	2,307	0	0	22	6	
15	3350.23	70,393	-349	1,805	0	2	4	1	2,184	0	1	34	6	
16	3349.73	69,922	-471	1,637	0	2	4	0	2,134	0	0	28	6	
17	3350.27	70,431	509	2,378	0	2	5	0	1,779	0	0	-87	6	
18	3350.65	70,790	359	2,224	0	1	5	1	1,914	0	1	55	6	
19	3350.21	70,374	-416	1,728	0	1	6	0	2,124	0	0	-15	5	
20	3350.05	70,223	-151	1,714	0	1	5	0	1,929	0	1	69	5	
21	3350.17	70,337	114	1,960	0	1	5	1	1,825	0	0	-16	5	
22	3349.56	69,763	-574	1,975	0	1	6	0	2,380	0	1	-163	5	
23	3349.11	69,341	-422	1,811	0	1	6	0	2,159	0	0	-69	5	
24	3350.41	70,563	1,222	3,487	0	1	5	1	2,402	0	0	142	5	
25	3349.63	69,829	-734	1,684	0	0	6	0	2,385	0	0	-27	5	
26	3349.31	69,528	-301	2,034	0	0	6	0	2,343	0	1	15	5	
27	3348.95	69,192	-336	2,182	0	0	6	1	2,329	0	0	-182	5	
28	3348.83	69,080	-112	2,164	0	0	6	0	2,388	0	1	119	4	
29	3348.43	68,707	-373	2,022	0	0	7	0	2,364	0	0	-24	3	
30	3349.09	69,323	616	2,509	0	0	5	1	1,932	0	0	45	2	
Total				-3,709	58,370	0	56	160	10	61,832	0	12	-121	189

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**June 2001**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
May 31	1582.05	113,484				
1	1582.05	113,484	0		9	
2	1582.04	113,462	-22		10	
3	1582.01	113,396	-66		10	
4	1582.01	113,396	0		10	
5	1582.03	113,440	44		10	
6	1582.04	113,462	22		10	
7	1582.05	113,484	22		10	
8	1582.11	113,616	132		10	
9	1582.15	113,704	88		9	
10	1582.05	113,484	-220		10	
11	1582.09	113,572	88		10	
12	1582.05	113,484	-88		10	
13	1582.10	113,594	110		10	
14	1582.14	113,682	88		10	
15	1582.16	113,726	44		10	
16	1582.16	113,726	0		9	
17	1582.14	113,682	-44		10	
18	1582.20	113,814	132		10	
19	1582.23	113,880	66		10	
20	1582.21	113,836	-44		10	
21	1582.22	113,858	22		10	
22	1582.21	113,836	-22		10	
23	1582.23	113,880	44		11	
24	1582.23	113,880	0		11	
25	1582.23	113,880	0		10	
26	1582.24	113,902	22		11	
27	1582.25	113,924	22		11	
28	1582.23	113,880	-44		11	
29	1582.26	113,946	66		11	
30	1582.23	113,880	-66		10	
<b>Total</b>			396	2,689	303	-1,990

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31a. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

June 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile	Entitlement	Rec.	Transfer 1/	Local 2/	Contractor Pump In
17E	40	Edmonston Pumping Plant	293.45			110,043				
	41		298.65	Kern County Water Agency Tej.-Cas		Stub				
17F		Check No. 41	303.41							
18A	42	Check No. 42	304.99							
19	43	Alamo Powerplant	305.73			64,480				
			308.05	Antelope Valley-East Kern WA		134				
		Check No. 43	309.70							
	44		311.84	LADWP Connection		0				
			313.50	AVEK 245th Street West		0				
	Check No. 44		314.81							
	45		314.93	AVEK 235th Street West		47				
			315.57	AVEK 225th Street West		0				
	Check No. 45		319.74							
	46		323.19	Antelope Valley-East Kern WA Fairmont		4,085				
		Check No. 46	323.84							
				Reach 19 Total:		4,266				
	47	Check No. 47	326.77							
20A	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon		103				
			329.65	Antelope Valley-East Kern WA 120th Street West		Re-moved				
		Check No. 48	330.82							
	49	Check No. 49	335.93							
20B	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)		0				
				Antelope Valley-East Kern WA		3,665				
			339.68	Antelope Valley-East Kern WA		123				
	Check No. 50		341.51							
	51	Check No. 51	342.07							
21	52		342.80	Antelope Valley-East Kern WA 30th Street West		Not in Use				
		Check No. 52	343.74							
	53		346.98	PWD Palmdale		954				
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant		20				
22A	Check No. 53		348.17							
	54	Check No. 54	350.25							
	55	Check No. 55	352.70							
	56	Check No. 56	354.76							
			354.97	Littlerock Creek I.D.		0				
22A	57	Check No. 57	356.93							
	58		357.60	Antelope Valley-East Kern WA		14				
			357.72	Antelope Valley-East Kern WA 96th Street East		200				
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant		527				

1/ AVEK transferred this water to Mojave Water Agency.

2/ Return of water that the contractor had pumped into the aqueduct.

**Table 31b. Governor Edmund G. Brown California Aqueduct**  
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

June 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recreation	Bypass Entitlement	Exchange	Local		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		57,132	256						
	59	Check No. 59	366.09									
	60	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency Mojave River	0							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10	Mojave Water Agency Morongo 24" and 42"	256							
				Mojave Water Agency Hesperia	0							
23	Check No. 66		403.41									
24	Mojave Siphon	405.48		Las Flores Ranch	189	10				189		
	Mojave Siphon Powerplant	405.65			58,370							
	Silverwood Lake	407.65		Crestline Lake Arrowhead Water Agency	160							
25				Calif. State Park Silverwood Agency (Rec.)	10							
San Bernardino Tunnel	411.46			61,832								
26A				San Gorgonio Pass Water Agency	0							
	Devil Canyon Powerplant	412.73			61,832							
28G	Santa Ana Valley Pipeline		412.88	MWD-SC Rialto	22,551	22,551						
				Desert Water Agency (MWD Wheeling Exchange)	2,381							
				San Gabriel Valley Water District	0							
				Coachella Valley WD (MWD Wheeling Exchange)	1,925							
				San Bernardino Valley MWD 24" and 72"	1,909							
				San Bernardino Valley MWD 48"	250							
				MWD (SBVMWD Exchange)	0							
28H	Lake Perris		425.46			9,085						
28J			433.06	MWD-SC Box Springs	9,085							
			440.05	MWD-SC Perris Bypass Pipeline	21,691							
			442.00	MWD-SC 18"	266							
28J			443.44	MWD-SC 54"	0	266				21,691		
				MWD-SC 78"	0							
				Calif. State Park								
				Lake Perris Recreation	37							
				MWD Total:	99,062	62,948	0	21,691	13,220	1,203		

**Table 32. Water Quality At Selected SWP Locations**

June 2001

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO <sub>3</sub>	36	92	62	63	72	71	72	69	70
Antimony	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.01	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	NR	0.04	0.07	0.07	0.14	0.16	0.14	0.13	0.15
Calcium	mg/l	7	16	15	16	20	20	19	19	20
Carbon - Dissolved Organic	mg/l as C	NR	3	3	NR	NR	NR	3	3	50
Carbon - Total Organic	mg/l as C	NR	5	3	3	3	NR	4	4	4
Chloride	mg/l	1	16	26	26	50	56	53	50	58
Chromium	mg/l	<0.005	0.010	0.006	0.007	0.011	0.006	0.006	0.006	0.006
Copper	mg/l	<0.001	0.004	0.002	0.002	0.003	0.002	0.002	0.002	0.008
Fluoride	mg/l	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	mg/l as CaCO <sub>3</sub>	30	94	70	73	95	95	93	93	99
Iron	mg/l	<0.005	<0.005	<0.005	0.029	0.065	0.047	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3	13	8	8	11	11	11	11	12
Manganese	mg/l	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.815
Nitrate + Nitrite	mg/l as N	<0.01	0.46	0.33	NR	NR	0.66	NR	0.65	0.60
Phosphorus-Ortho	mg/l as P	<0.01	0.12	0.15	NR	NR	0.08	NR	0.08	0.07
Phosphorus-Total	mg/l	0.01	0.28	0.10	NR	NR	0.12	NR	0.12	0.10
Selenium	mg/l	<0.001	<0.001	<0.001	NR	NR	NR	<0.001	NR	NR
Sodium	mg/l	3	22	24	25	39	43	41	39	45
Specific Conductance	µS/cm	76	283	268	274	385	410	397	381	430
Sulfate	mg/l	<1	21	22	23	33	33	33	32	38
Total Dissolved Solids	mg/l	54	169	170	161	219	235	227	219	251
Turbidity	NTU	3.4	79.6	10.3	29.95	8.8	10.2	9	15.35	4
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

**June 2001**

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Mean Daily	Monthly Average	md	md											
	Hi	Half	md	md	md	14dm	md	14dm	md	md	md	md	md	md	
1	2.82	1.18	10,073	10,073	9,374	1.09	4.92	0.33	0.44	0.32	0.33	0.47	0.60	0.46	44
2	3.08	1.18	8,476	9,275	10,030	1.15	4.99	0.31	0.44	0.34	0.33	0.47	0.52	0.41	43
3	3.19	1.06	8,580	9,043	10,474	1.16	4.58	0.33	0.44	0.34	0.33	0.42	0.54	0.38	41
4	3.14	1.10	8,864	8,998	10,291	1.17	4.60	0.31	0.44	0.35	0.33	0.39	0.61	0.40	43
5	3.33	1.20	8,724	8,943	10,149	1.32	5.30	0.38	0.44	0.37	0.34	0.38	0.60	0.38	41
6	3.25	1.10	9,180	8,983	10,168	1.28	4.91	0.36	0.44	0.38	0.34	0.37	0.55	0.37	41
7	3.16	1.12	8,161	8,865	9,637	1.25	4.78	0.36	0.43	0.38	0.34	0.37	0.52	0.39	39
8	3.24	1.26	7,676	8,717	9,571	1.42	5.26	0.41	0.43	0.41	0.35	0.36	0.47	0.36	40
9	3.06	1.20	8,060	8,644	10,350	1.34	5.11	0.39	0.41	0.41	0.35	0.36	0.47	0.37	39
10	2.86	1.13	8,962	8,676	10,040	1.11	4.87	0.39	0.38	0.38	0.35	0.37	0.51	0.36	39
11	2.56	1.07	8,458	8,656	6,958	1.12	4.76	0.42	0.37	0.36	0.35	0.37	0.52	0.36	40
12	2.22	0.97	7,566	8,565	9,557	1.05	4.23	0.38	0.36	0.36	0.36	0.38	0.49	0.36	40
13	1.93	0.71	7,740	8,502	9,710	0.91	0.00	0.28	0.36	0.34	0.36	0.37	0.52	0.38	40
14	2.17	0.62	7,237	8,411	9,727	0.93	3.67	0.26	0.35	0.33	0.36	0.35	0.49	0.36	40
15	2.17	0.66	6,311	8,271	6,100	1.01	4.59	0.30	0.35	0.34	0.36	0.36	0.48	0.33	40
16	2.47	0.73	6,090	8,135	5,924	1.18	0.00	0.27	0.35	0.35	0.36	0.35	0.48	0.30	41
17	2.81	0.89	5,841	8,000	6,040	1.48	0.00	0.32	0.35	0.37	0.37	0.35	0.46	0.31	42
18	2.89	0.92	7,594	7,977	6,276	1.69	0.00	0.39	0.35	0.38	0.37	0.35	0.53	0.32	40
19	3.17	1.12	8,014	7,979	6,204	1.93	8.03	0.54	0.36	0.39	0.37	0.35	0.53	0.32	41
20	3.47	1.23	7,178	7,939	6,179	2.34	8.44	0.75	0.39	0.45	0.38	0.35	0.49	0.30	40
21	3.73	1.35	7,434	7,915	6,466	2.76	9.10	0.98	0.43	0.51	0.38	0.36	0.50	0.29	39
22	3.74	1.48	7,652	7,903	6,411	2.85	9.42	1.06	0.48	0.53	0.39	0.36	0.52	0.31	40
23	3.83	1.50	8,012	7,908	6,308	3.04	9.95	1.28	0.54	0.58	0.41	0.37	0.52	0.30	40
24	3.55	1.37	7,948	7,910	6,599	2.82	9.28	1.11	0.60	0.53	0.42	0.36	0.55	0.31	39
25	3.20	1.26	8,205	7,921	6,604	2.53	8.62	1.11	0.65	0.47	0.42	0.36	0.64	0.32	40
26	2.81	1.18	8,066	7,927	6,333	2.11	7.87	0.78	0.67	0.42	0.43	0.36	0.62	0.32	40
27	2.47	1.06	7,321	7,904	6,719	2.01	7.34	0.66	0.70	0.40	0.43	0.36	0.58	0.33	40
28	2.50	0.75	7,856	7,903	7,243	1.63	6.51	0.49	0.72	0.36	0.43	0.36	0.59	0.33	40
29	2.71	0.73	7,955	7,905	7,885	1.56	6.03	0.45	0.73	0.36	0.44	0.36	0.59	0.32	41
30	2.71	0.85	8,633	7,929	8,412	1.68	6.65	0.43	0.74	0.38	0.44	0.35	0.58	0.33	42

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

June 2001

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 20, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.41
California Aqueduct At Banks Pumping Plant	June 20, 2001	None Detected	
Delta Mendota Canal At McCabe Road	June 20, 2001 June 20, 2001	2,4-Dichlorophenylacetic acid (DCAA) Methyl tert-butyl ether (MTBE)	0.375 2.20
California Aqueduct Near Kettleman City (Check 21)	June 19, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.52
California Aqueduct At Tehachapi Afterbay (Check 41)	June 20, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.31
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	June 20, 2001	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

**June 2001**

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	6,896,736	878,688	23,716	29,029	18,816	18,816	227,475	279
2	4,016,736	728,640	20,111	23,135	412,992	412,992	234,630	240
3	2,937,312	0	21,483	20,531	464,448	464,448	368,080	4,990
4	5,683,104	5,472	23,163	26,992	629,568	629,568	459,040	11,694
5	6,726,528	2,592	21,560	24,003	580,992	580,992	444,040	10,015
6	6,380,640	3,168	24,535	27,776	18,240	18,240	476,365	17,042
7	9,063,360	2,592	29,477	31,640	89,280	89,280	485,560	18,034
8	9,027,360	1,440	44,310	34,356	162,240	162,240	343,750	8,185
9	7,511,040	288	46,851	33,285	92,544	92,544	264,415	259
10	2,415,744	4,608	48,447	35,077	122,496	122,496	239,555	239
11	5,648,832	1,728	41,657	34,902	107,136	107,136	153,745	230
12	3,326,976	5,760	38,689	32,711	18,048	18,048	71,265	239
13	5,684,544	576	38,906	32,816	18,048	18,048	78,790	257
14	7,428,672	2,304	46,900	38,150	25,536	25,536	118,695	278
15	6,654,816	2,592	45,402	35,861	19,008	19,008	129,225	288
16	3,996,000	127,872	48,888	36,729	23,040	23,040	129,185	281
17	2,208,096	757,152	54,663	37,751	17,664	17,664	129,325	284
18	5,565,600	1,063,584	44,590	36,274	19,200	19,200	143,760	291
19	3,245,184	1,653,696	37,555	38,521	19,584	19,584	154,305	295
20	6,024,384	1,489,248	29,176	36,757	26,112	26,112	151,305	294
21	9,623,520	753,120	50,043	38,563	19,776	19,776	155,820	279
22	7,910,208	2,016	52,654	37,366	19,200	19,200	155,700	273
23	4,554,720	4,032	57,127	38,311	17,856	17,856	155,110	246
24	1,850,688	6,336	51,051	40,278	17,280	17,280	154,860	224
25	4,848,480	5,760	43,533	34,356	18,048	18,048	136,445	213
26	5,393,952	3,456	36,379	32,487	21,120	21,120	141,045	271
27	2,829,600	4,608	40,628	31,990	18,240	18,240	117,980	272
28	3,432,384	5,184	33,481	29,960	18,240	18,240	107,550	254
29	6,784,704	2,880	42,896	34,062	18,240	18,240	112,270	218
30	4,427,136	3,456	55,209	37,737	17,856	17,856	129,130	197
Total	162,097,056	7,522,848	1,193,080	1,001,406	3,070,848	3,070,848	6,168,420	76,161

**Table 36. San Luis Field Division Energy Data**

June 2001

(in kWh)

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,558,512	868,512	3,835,008	1,990,008	8,064	8,064
2	1,792,224	1,102,224	3,071,520	1,226,520	6,912	6,912
3	1,639,728	943,728	2,149,920	796,920	8,352	8,352
4	1,708,992	1,018,992	2,919,456	1,566,456	5,760	5,760
5	1,822,752	1,132,752	3,518,496	1,580,496	7,200	7,200
6	1,737,072	1,047,072	3,916,224	1,756,224	864	864
7	1,979,568	1,082,568	3,314,592	1,042,592	6,624	6,624
8	1,847,520	950,520	3,696,192	1,536,192	6,624	6,624
9	1,679,616	782,616	3,240,000	1,080,000	5,184	5,184
10	1,890,576	1,002,576	4,057,056	1,897,056	0	0
11	1,687,392	790,392	2,260,800	1,684,800	10,656	10,656
12	1,894,608	997,608	3,324,672	2,316,672	7,776	7,776
13	2,020,032	1,123,032	3,835,008	2,015,008	4,032	4,032
14	1,883,088	986,088	3,793,248	1,973,248	1,728	1,728
15	1,855,008	820,008	3,084,480	1,320,480	8,640	8,640
16	1,890,864	855,864	2,797,056	1,537,056	7,488	7,488
17	1,828,368	796,368	1,599,840	339,840	11,232	11,232
18	1,644,768	609,768	2,966,688	1,136,688	169,344	169,344
19	1,755,360	720,360	3,097,152	991,152	9,792	9,792
20	2,029,536	1,048,536	4,634,784	1,515,784	0	0
21	1,724,832	743,832	3,389,760	1,191,760	8,064	8,064
22	1,909,872	928,872	3,515,904	1,387,904	6,912	6,912
23	1,581,552	600,552	3,709,728	1,497,728	6,048	6,048
24	1,977,840	999,840	2,434,464	244,464	6,048	6,048
25	1,434,096	453,096	3,413,952	1,193,952	6,624	6,624
26	1,679,184	698,184	2,837,376	647,376	6,336	6,336
27	1,747,152	766,152	3,087,936	367,936	6,048	6,048
28	1,853,424	872,424	2,526,048	1,406,048	6,912	6,912
29	1,602,864	621,864	2,589,984	349,984	7,200	7,200
30	1,718,784	746,784	2,864,160	784,160	7,200	7,200
Total	53,375,184	26,111,184	95,481,504	38,374,504	353,664	353,664

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;  
adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Pumping Plant Energy Load Data**

(in kWh)

June 2001

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrismen	Edmonston
1	38,176	106,824	57,258	55,224	57,024	1,092,960	1,056,024	2,260,512	7,698,240
2	38,438	106,928	67,068	63,828	63,576	1,016,784	1,008,000	2,195,424	7,899,840
3	41,284	117,624	55,836	52,560	55,782	1,131,336	1,134,360	2,465,856	8,791,920
4	29,998	79,400	73,872	69,678	75,600	1,051,416	1,064,808	2,285,568	8,519,040
5	33,314	91,464	49,500	47,286	49,482	1,165,320	1,161,720	2,500,128	8,961,120
6	29,620	80,648	64,620	61,704	63,864	1,125,216	1,022,688	2,153,664	7,734,240
7	31,370	85,056	60,030	57,204	60,498	928,656	878,256	1,879,488	6,856,560
8	31,332	81,856	67,248	63,072	65,520	1,002,600	917,928	1,949,184	6,755,040
9	49,396	139,328	73,908	69,750	72,684	805,464	794,016	1,729,152	6,271,920
10	39,662	109,816	50,436	48,438	52,254	818,640	808,272	1,697,472	6,059,520
11	34,452	94,392	63,630	59,850	59,274	1,018,296	1,038,384	2,267,424	8,228,160
12	36,638	103,416	68,472	65,916	67,482	1,019,592	1,017,864	2,165,760	7,724,880
13	31,794	85,672	58,950	56,934	58,626	1,153,152	1,082,664	2,314,368	8,115,120
14	34,414	94,008	68,418	65,286	66,366	1,224,792	1,158,984	2,451,744	8,975,520
15	37,392	103,400	65,412	61,596	63,144	1,106,208	1,119,528	2,348,064	8,490,960
16	47,084	130,240	62,406	60,462	60,588	1,081,080	1,039,680	2,212,992	7,954,560
17	34,708	96,296	71,874	69,516	69,498	1,065,888	1,117,872	2,456,928	8,737,920
18	32,390	89,744	67,590	64,530	66,582	986,112	956,808	2,021,760	7,459,200
19	37,606	103,064	74,664	70,146	71,280	1,055,088	1,009,224	2,203,488	7,769,520
20	34,730	96,272	88,812	85,554	85,104	1,188,000	1,179,648	2,491,776	8,935,920
21	38,442	105,344	82,188	78,516	79,362	1,157,976	1,103,616	2,337,408	8,370,720
22	40,716	111,664	95,328	90,360	88,092	1,226,232	1,161,864	2,480,256	8,953,920
23	45,008	124,672	84,204	82,944	83,250	1,072,224	1,042,560	2,224,800	7,845,840
24	42,512	117,464	95,256	92,862	91,512	1,566,144	1,620,072	3,559,968	13,076,640
25	36,398	96,776	84,348	80,856	81,180	935,208	904,464	1,914,912	6,725,520
26	39,886	109,472	90,468	86,220	86,238	1,219,176	1,193,904	2,524,896	8,982,720
27	39,342	106,648	87,894	83,736	83,808	1,284,984	1,245,888	2,699,136	9,807,120
28	37,958	104,944	93,636	89,964	90,108	1,203,408	1,211,616	2,580,192	9,150,480
29	36,430	100,192	72,324	69,354	70,668	1,237,752	1,208,016	2,610,432	9,423,360
30	40,124	109,776	62,496	58,284	60,606	1,139,112	1,114,272	2,400,480	8,692,560
Total	1,120,614	3,082,400	2,158,146	2,061,630	2,099,052	33,078,816	32,373,000	69,383,232	248,968,080

**Table 38. Southern Field Division Energy Data**

(in kWh)

**June 2001**

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	340,872	926,208	1,608,000	238,364	1,044,444	2,442,432	143,619
2	404,264	791,928	1,608,000	210,952	1,183,296	2,132,736	127,785
3	593,544	1,095,408	1,608,000	195,244	1,107,828	2,362,368	101,010
4	418,712	796,824	1,440,000	215,880	1,200,576	2,302,560	153,804
5	449,624	809,496	1,440,000	229,488	1,166,196	2,282,016	142,212
6	227,808	488,088	1,104,000	259,952	1,361,052	2,264,448	154,728
7	239,008	571,392	1,104,000	230,496	1,106,556	2,181,696	125,181
8	273,784	821,160	1,104,000	217,476	1,112,292	2,330,208	135,387
9	309,344	832,392	1,104,000	196,056	938,268	1,960,224	96,663
10	81,032	0	1,104,000	287,140	1,248,708	2,279,424	154,350
11	311,024	834,336	1,200,000	236,656	1,390,020	2,789,760	174,132
12	313,376	889,920	1,200,000	241,360	1,175,724	2,555,040	140,238
13	335,104	864,936	1,200,000	244,076	1,218,768	2,745,408	132,342
14	450,464	910,512	1,200,000	255,612	1,344,360	2,802,528	160,608
15	422,576	806,688	1,200,000	242,284	1,274,676	2,681,472	140,280
16	382,536	1,000,584	1,200,000	221,368	943,644	2,624,352	124,677
17	221,592	81,432	1,200,000	367,668	1,848,720	2,202,336	182,805
18	336,672	764,280	1,200,000	238,952	1,136,736	2,354,592	178,437
19	285,432	882,432	1,200,000	256,844	1,192,956	2,614,368	129,969
20	413,280	829,224	1,200,000	263,676	1,254,636	2,369,952	129,738
21	419,776	879,624	1,200,000	237,804	1,169,016	2,236,224	152,817
22	446,880	1,006,128	1,200,000	256,368	1,268,052	2,883,936	153,573
23	327,152	658,944	1,200,000	245,812	1,212,852	2,635,392	143,892
24	409,920	330,120	1,200,000	413,868	2,604,900	2,913,984	284,382
25	227,528	790,416	1,200,000	245,112	987,144	2,930,400	132,573
26	398,608	842,256	1,200,000	279,412	1,329,048	2,882,880	162,813
27	485,128	799,128	1,200,000	273,784	1,340,028	2,861,568	173,943
28	412,552	721,656	1,200,000	261,856	1,491,624	2,933,568	173,250
29	342,552	981,504	1,200,000	278,348	1,451,976	2,906,016	165,039
30	378,448	844,416	1,200,000	272,636	1,523,712	2,375,712	208,194
Total	10,658,592	22,851,432	37,224,000	7,614,544	38,627,808	75,837,600	4,578,441